

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
8 January 2004 (08.01.2004)

PCT

(10) International Publication Number
WO 2004/004412 A1

(51) International Patent Classification⁷: **H04R 25/00**,
A61N 1/36

(74) Agent: **F B RICE & CO**; 139-141 Rathdowne Street,
Carlton South, Victoria 3053 (AU).

(21) International Application Number:
PCT/AU2003/000804

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GI,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 26 June 2003 (26.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PS 3182 26 June 2002 (26.06.2002) AU

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*):
COCHLEAR LIMITED [AU/AU]; 14 Mars Road,
Lane Cove, New South Wales 2066 (AU).

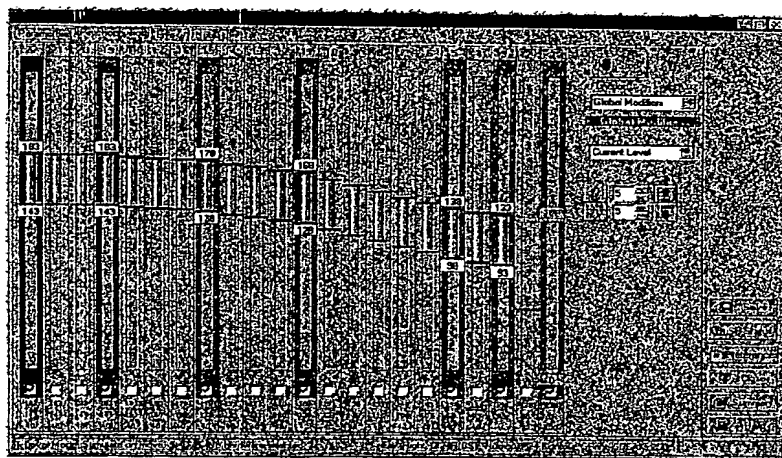
Published:
— with international search report

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **SMOORENBURG**,
Guido, F [NL/NL]; Afdeling KNO, Heidelberglaan 100,
NL-3584-CX Utrecht (NL).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **PARAMETRIC FITTING OF A COCHLEAR IMPLANT**



(57) Abstract: A method of fitting an auditory stimulation system to a recipient the system having a plurality of channels, and the method including the steps of establishing an initial current level profile representative of a current level setting spanning across at least some of the plurality of channels and adjusting parameters of the initial current level profile in the presence of a stimulation signal. There is further included a programming apparatus adapted to be interfaced with the auditory stimulation system to allow manipulation of threshold (I) and comfort (C) levels of the system. The apparatus includes a graphical display means adapted to display a graphical representation of the current profile of the channel array and means for adjusting a current level setting of the current profile of the array.

WO 2004/004412 A1